FIG. 1 100 90 80-70 60 50 40 30-20 10-

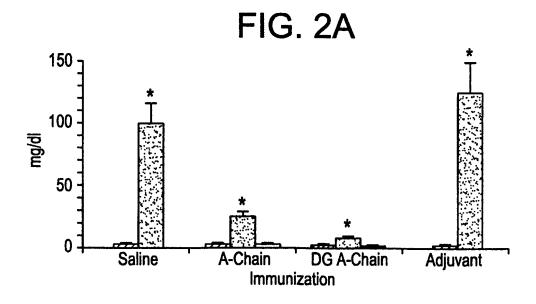
Days post-Exposure

8 9 10 11 12 13 14

A-chain

0

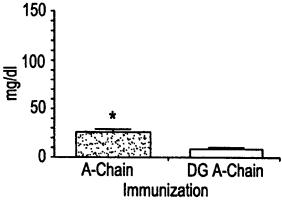
- DG A-chain
- Adiuvant
- Saline



- ₽ PBS
- ✓ Ricin 30 hr✓ Ricin -14 day

FIG. 2B

Ricin Exposure - 30 hr



P < 0.05

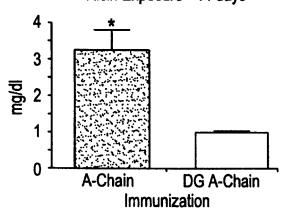
* = P < 0.05 (difference from PBS aerosol)

+ = P < 0.05 (difference from saline/adjuvant exposed to ricin aerosol)

S = P < 0.05 (difference between dgRTA and RTA exposed to ricin aerosol)

FIG. 2C

Ricin Exposure - 14 days



P < 0.05

* = P < 0.05 (difference from PBS aerosol)

+ = P < 0.05 (difference from saline/adjuvant exposed to ricin aerosol) S = P < 0.05 (difference between dgRTA and RTA exposed to ricin aerosol)

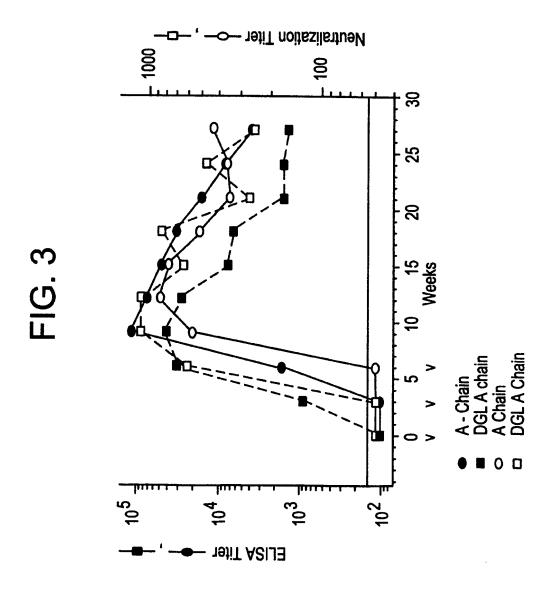


FIG. 4

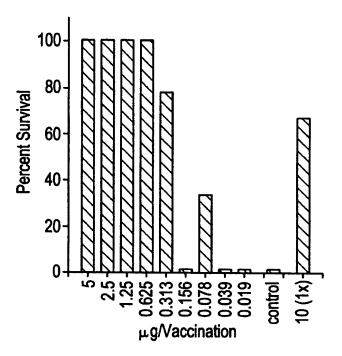
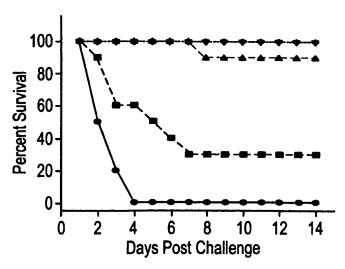
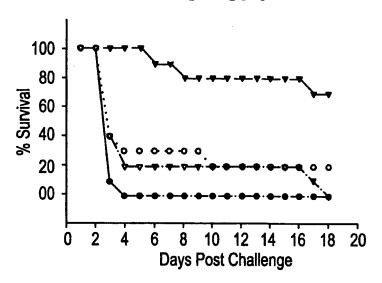


FIG. 5



- Control N-2x N-3x D-2x D-3x

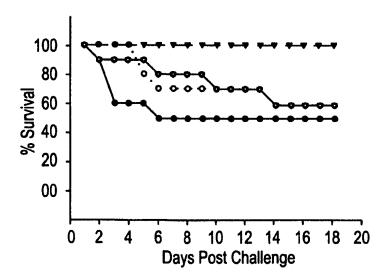
FIG. 6A



Immunization Dose: 0.15 μg/immunization

- Saline
- Alhydrogel Novasomes
- **QS-21**

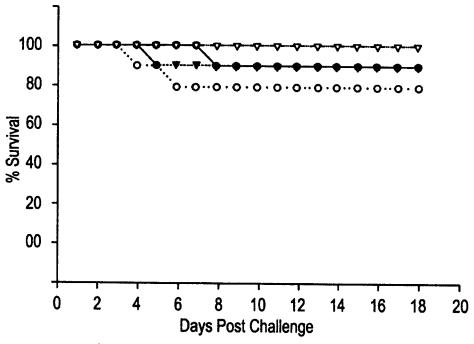
FIG. 6B



Immunization Dose: $0.31~\mu g/immunization$

- Saline
- Alhydrogel Novasomes
- **QS-21**

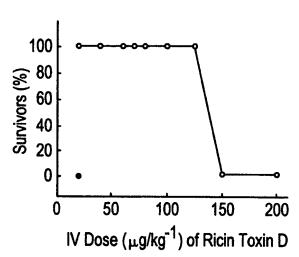
FIG. 6C



Immunization Doses: 0.63 μg/Immunization

- Saline Alhydrogel Novasomes
- **QS-21**

FIG. 7



- Control
- Pre-treatment goat anti-ricin lgG

FIG. 8

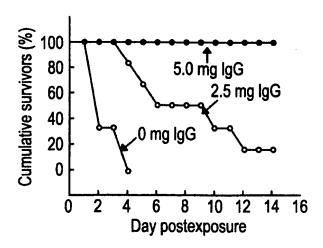
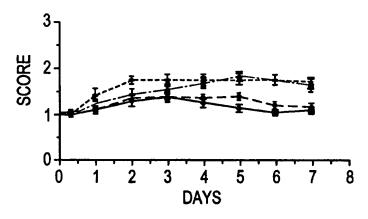


FIG. 9A



- 0.5 ml Room Temp. 5 ml Room Temp. 0.5 ml Refrig. Temp. 5 ml Refrig. Temp.

FIG. 9B

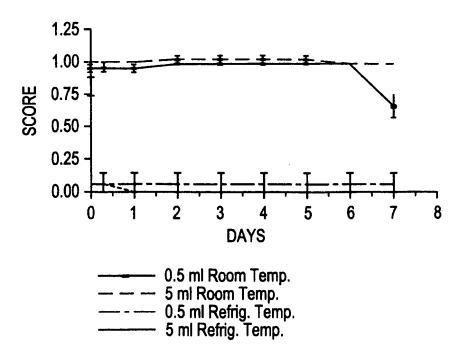
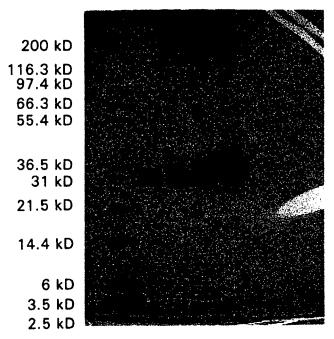


FIG.10

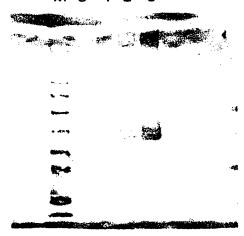
M S 1 2 3



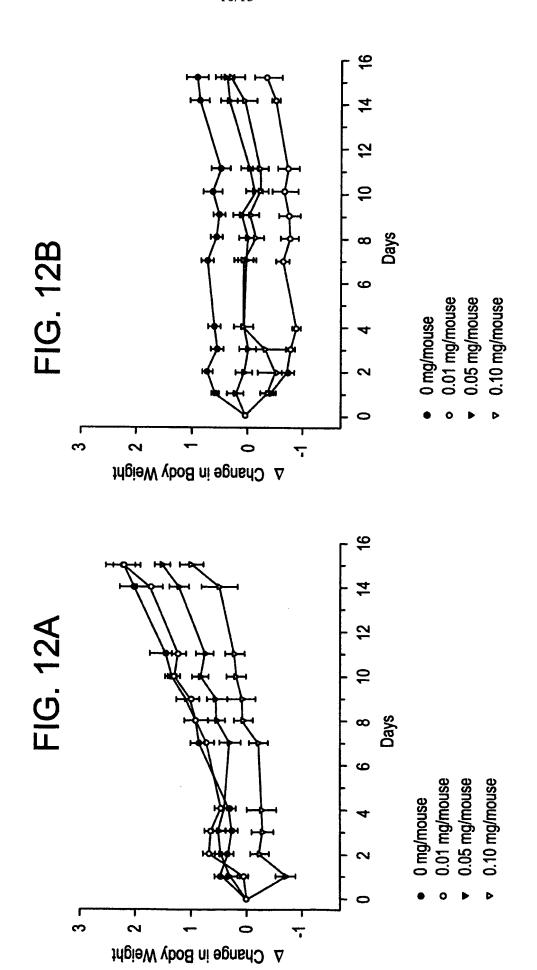
M-Mark 12 Protein Standard S-2.5μg dgRTA Standard 1-2-μl Precipitate of dgRTA 2-5-μl Precipitate of dgRTA 3-10-μl Precipitate of dgRTA

FIG.11

M S 1 2 3



M-SeeBlue Pre-Stained Standard S-2.5μg dgRTA Standard 1-2-μl Precipitate of dgRTA 1-5-μl Precipitate of dgRTA 1-10-μl Precipitate of dgRTA



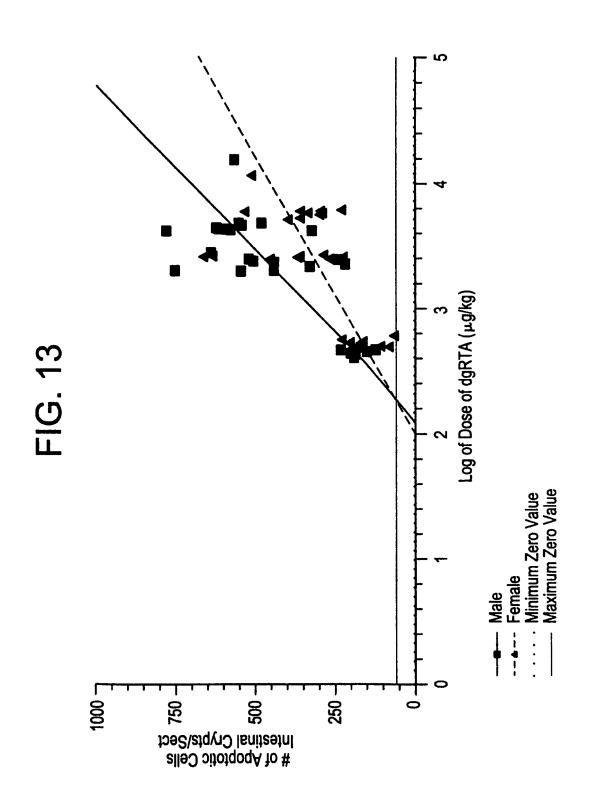
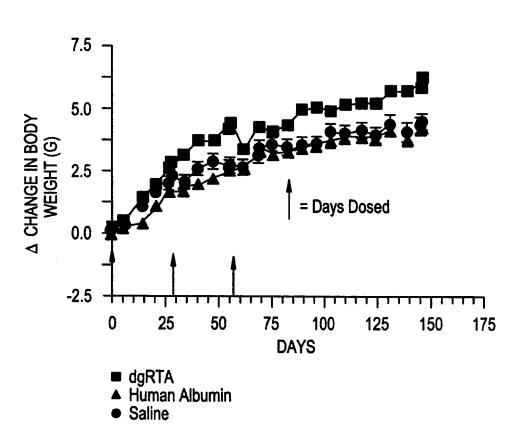
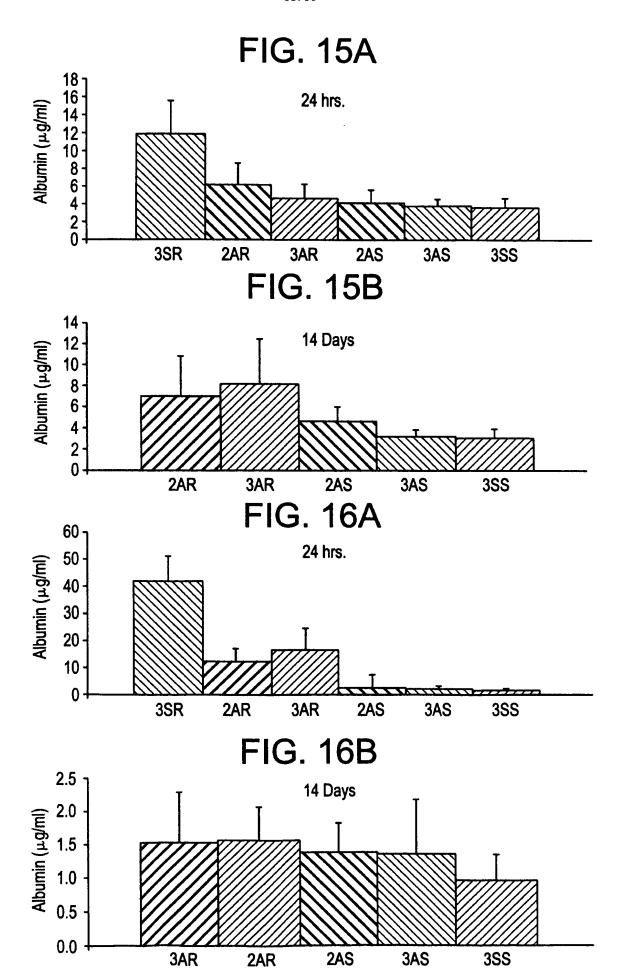


FIG. 14





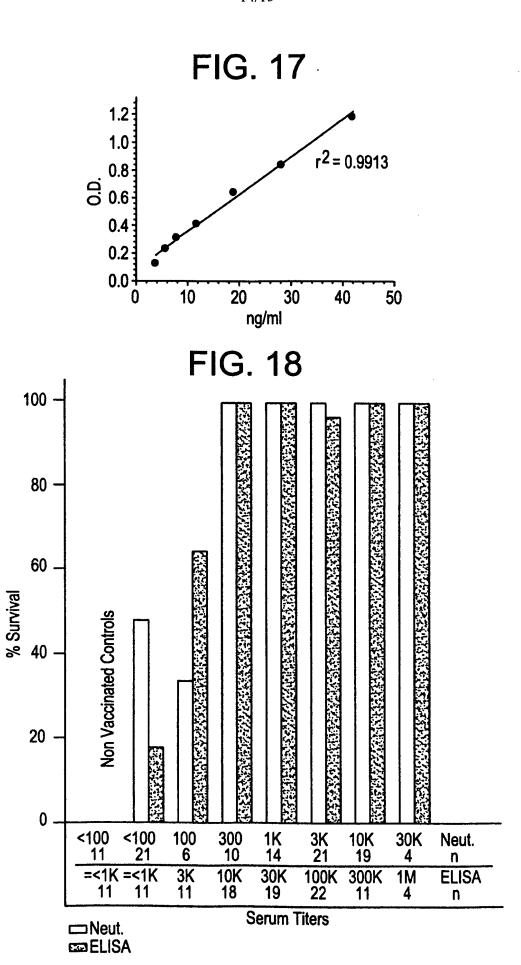


FIG. 19

